

### Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

MAR 2 9 2001

01-FTD-024

Mr. Rick Bond, Transition Project Manager Nuclear Waste Program State of Washington Department of Ecology 1315 W. 4th Avenue Kennewick, Washington 99336



**EDMC** 

Dear Mr. Bond:

HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) INTERIM MILESTONE M-89-02, COMPLETE REMOVAL OF 324 BUILDING RADIOCHEMICAL ENGINEERING CELLS (REC) B-CELL MIXED WASTE (MW) AND EQUIPMENT

- References: (1) Ecology ltr. to C. E. Clark, RL, from R. Bond, "Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Interim Milestone M-89-02, Complete Removal of 324 Building Radiochemical Engineering Cells (REC) B-Cell Mixed Waste (WM) and Equipment, November 30, 2000," dtd. March 13, 2001.
  - (2) Ecology ltr. to P. Knollmeyer, RL, from R. Bond, "324 Building Checklist and Confirmation of Missed Milestone M-89-02," dtd. February 1, 2001.
  - (3) RL ltr. to M. A. Wilson, Ecology, from C. E. Clark, "Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Interim Milestone M-89-02, Complete Removal of 324 Building Radiochemical Engineering Cells (REC) B-Cell Mixed Waste (WM) and Equipment, November 30, 2000," (01-FTD-010) dtd. December 21, 2000.

The U. S. Department of Energy, Richland Operations Office (RL) and RL contractor, Fluor Hanford, Inc. (FHI) are notifying the State of Washington Department of Ecology (Ecology) that the agreed upon scope of work for B-Cell cleanout, as described below, for Tri-Party Agreement Interim Milestone M-89-02 was completed March 22, 2001. RL committed to complete this scope by March 30, 2001, in a revised schedule provided in Reference (3). The original milestone date of November 30, 2000, was missed. The remaining scope of work for the non-mixed waste (non-MW) will be completed by July 31, 2001.

The enclosed Interim Milestone M-89-02 completion checklist, as supplemented by Reference (1), accurately describes the scope of work and activities required to complete M-89-02. RL appreciates the assistance provided by Ecology in developing the checklist and agreement to use

the checklist as a tracking tool to monitor completion of M-89-02 workscope (Reference 2). The checklist systematically lists the performance measures, provides a record of the status of milestone completion, and provides a record of completion of the respective activities. The scope of work described in the checklist includes the total scope necessary to complete M-89-02. The checklist includes both the removal of all dispersible materials, excess equipment, and debris from B-Cell and shipment of the removed MW to suitable storage in the 200 Area by March 30, 2001, and the shipment of the remaining non-MW removed from B-Cell to suitable disposal or storage in the 200 Area by July 31, 2001.

Currently, two of 19 additional non-MW shipments have been completed. Shipments of the remaining non-MW removed from B-Cell are on schedule to meet the July 31, 2001, commitment.

If there are any questions, please contact me on (509) 376-9333, or your staff may contact David Langstaff, Facility Transition Division, on (509) 376-0254.

Sincerely

Clifford E. Clark, Acting Program Manager

Office of Regulatory Liaison

FTD:DCL

#### Enclosure

cc w/encl:

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# 324 BUILDING TRI-PARTY AGREEMENT INTERIM MILESTONE M-89-02 CHECKLIST SHOWING STATUS AS OF MARCH 23, 2001

The Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Interim Milestone M-89-02 is defined in Tri-Party Agreement Change Number M-89-98-03 (Reference 1 below) as "Complete removal of 324 Building REC B-Cell MW and Equipment." The M-89-98-03 change indicates that containerized mixed-waste (MW) will be managed in compliance with Chapter 173.303 WAC (Washington Administrative Code, Dangerous Waste Regulations), thereby reducing risks to human health and the environment. It also indicates that any remaining residues will be managed through the final closure process.

The checklist provided consists of a list of the actions and conditions described in the U.S. Department of Energy, Richland Operations Office (RL) letter number 00-FTD-006, "Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Interim Milestone M-89-02, Complete Removal of 324 Building REC B-Cell MW and Equipment, November 30, 2000" (Reference 2 below). The RL letter was submitted to the State of Washington Department of Ecology (Ecology) on December 08, 1999. The RL letter provided an attachment and a table to provide greater definition for the performance standards to be met by interim milestone M-89-02. Ecology concurred with RL letter 00-FTD-006 in a response letter (same subject) to RL, dated February 28, 2000 (Reference 3 below). Detailed B-Cell equipment information regarding useable deactivation equipment was provided in a one-page information handout at the May 18, 2000, Project Managers' Meeting (Reference 4 below). Ecology provided clarifications regarding the interim milestone M-89-02 in a one-page handout at the August 9, 2000, Project Managers' Meeting (Reference 5, Attachment 6, Ecology handout regarding use of 90-day MW accumulation area and clarifications regarding M-89-02 milestone performance standard). Note: The non-shaded areas in the checklist table will be used to provide status information for activities/measures.

#### References:

- 1) Tri-Party Agreement Change Number M-89-98-03, for Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), regarding Milestone M-89-02, November 1998.
- RL Letter No. 00-FTD-006, "Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Interim Milestone M-89-02, Complete Removal of 324 Building REC B-Cell MW and Equipment, November 30, 2000," dated December 08, 1999.
- 3) Ecology letter dated February 28, 2000, same subject as Reference 2.
- 4) 324 REC/HLV Project Managers' Meeting, May 18, 2000, Meeting Minutes, Attachment 4, List of Usable Deactivation Equipment, 324 Building, M-89-02, Detailed B-Cell Equipment Information, May 18, 2000.
- 5) 324 REC/HLV Project Managers' Meeting, August 9, 2000, Meeting Minutes.
- 6) RL Letter 01-FTD-014, "Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Interim Milestone M-89-02, Complete Removal of 324 Building Radiochemical Engineering Cells Mixed Waste (MW) and Equipment, November 30, 2000," dated February 23, 2001.

Action/Requirement/Conditions	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
1) First Distinct Action for M-89-02 (Reference 1):		V 255 -55				a. 1 5, t
Mixed waste (MW) must be containerized, removed from B-Cell and placed in a condition that is compliant with Chapter173.303 of the WAC			Processor.			
Performance standard for First Distinct Action:						Same SIM
<ul> <li>Removal of MW from the Radiochemical Engineering Cells (REC) B-Cell requires the collection and containerization of dispersible material from the B-Cell</li> </ul>					300	
<ul> <li>Collection will not include destructive and/or chemical methods (i.e., spalling or decontamination washes) so that a determination of liner interity (closure activity required post M-89-02) can be made prior to liner decontamination</li> </ul>						
<ul> <li>The dispersible material will be containerized in a compliant (with receipt facility acceptance criteria) container system</li> </ul>				2 20 2		
<ul> <li>Containerized dispersible material will be removed from REC B-Cell and may be moved to an interim storage area</li> </ul>						200
Activity(s)/Measure(s):  la Perform collection and containerization of dispersibles through retrieval with a pneumatic clamshell from the B-Cell floor (Reference 1)	х	Clamshelling of B-Cell floor has been completed. Clamshelling was performed after clearing and scraping the floor.	100%		03/01/01	Cell diagram and videotape

	Action/Requirement/Conditions	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
1b	Following clamshelling (1a above), collect dispersibles by performing a filtered vacuum of the B-Cell floor (Reference 1) (NOTE: Invite Ecology to observe vacuuming and documentation.)	X	The cranc-deployed vacuum system was installed in the B-Cell using existing 5000-lb block for fixture/stability, and vacuuming of the main B-Cell floor area was performed.  The Dispersible Removal System (DRS) vacuuming unit was also installed in B-Cell and vacuuming of difficult areas was performed using the DRS.  Vacuuming activities have been completed for all grid sections of the B-Cell floor.  Vacuuming status was based on systematic grid approach using cell diagrams and video taping.  Ecology was invited and observed vacuuming activities as appropriate in person, and on videotape.	100%		03/01/01	Cell diagram and videotape

		Status			Estimated	Actual	
		(Complete (X)		%	Completion	Completion	Documentation
	Action/Requirement/Conditions		Status Statement		Date		Completed
lc .	Action/Requirement/Conditions  Transfer dispersibles collected by these methods into containers for interim storage (Reference 5, Section 5.6, directly loading MW dispersibles into rectangular grout containers))	In Progress (P)	Status Statement  Transfer of dispersibles into rectangular grout containers (RGCs) has been completed for all seven (7) of the seven (7) expected dispersibles RGCs, which are as follows:  RGC-324-00-123 (RGC-5) RGC-324-00-114 (RGC-8) RGC-324-00-117 (RGC-9) RGC-324-00-101 RGC-324-00-102 RGC-324-00-115  These RGCs contain some MW debris and MW equipment, but were tracked as dispersibles RGCs on this checklist.  Loading of MW into RGC-324-00-115 has been completed.	Complete	Date	Date 03/01/01	Videotape

Action/Requirement/Conditions	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
Activity(s)/Measure(s) (continued):  1d Move containerized dispersibles to a compliant mixed waste storage area (Reference 1)						
1d.1 Remove containerized MW dispersible material from B-Cell (Reference 1).  -MW containers will be staged/moved to a 324 Building 90-day MW accumulation area after packaging and radiological survey. This provides waste management controls commensurate with WAC 173-303 dangerous waste accumulation requirements. Ecology concurrence (through enforcement discretion) is applicable for this activity since the MW is not newly generated (Reference 5).	х	The seven (7) dispersibles RGCs have been removed from B-Cell, including the following:  RGC-324-00-123 (RGC-5) RGC-324-00-114 (RGC-8) RGC-324-00-101 RGC-324-00-102 RGC-324-00-117 (RGC-9) RGC-324-00-119 RGC-324-00-115	100%		03/08/01	Container loadout documentation

	Action/Requirement/Conditions	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
1d.2	Complete shipment (and receipt) of containerized MW dispersible material to 200 Area Central Waste Complex compliant MW storage area by 11/30/00 (Reference 5) <sup>1</sup>	X	Shipping has been completed for the seven (7) dispersibles RGCs, including the following:	100%	Date	03/22/01	Shipping papers/manifests
			RGC-324-00-114 (10/09/00) RGC-324-00-123 (12/01/00) RGC-324-00-101 (01/09/01) RGC-324-00-102 (01/26/01) RGC-324-00-119 (02/01/01) RGC-324-00-117 (02/06/01) RCG-324-00-115 (03/22/01)				

<sup>&</sup>lt;sup>1</sup> Reference 5, Attachment 6, indicates that all collected mixed waste must be removed from the 324 Building B-Cell and placed in compliant, long-term storage in the 200 Area prior to the deadline established by M-89-02 (November 30, 2000).

Action/Requirement/Conditions	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
2) Second Distinct Action for M-89-02 (Reference 1):						
The second distinct action required under interim milestone M-89-02 requires the removal of excess equipment from the REC B-Cell						
Table attached to RL letter 00-FTD-006 provides all equipment currently within the REC B-Cell and defines "Excess" versus "Required" equipment						
Performance Standard for Second Distinct Action:						
<ul> <li>Removal and containerization of all equipment (excluding Spent Nuclear Fuel) from B-Cell not required for the implementation of further closure actions and/or deactivation endpoints as established in the Closure Plan and the 324/327 Buildings integrated Project Management Plan (PMP), HNF-1289</li> </ul>						
<ul> <li>Excess equipment is defined in the attachment (pages 4-6) to RL letter 00-FTD-006, which provides the listing of B-Cell and a determination of its disposition status per M-89-02</li> </ul>						

Action/Requirement/Conditions	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
Activity(s)/Measure(s): 2a Containerize following "Excess" equipment from B-Cell (Reference 1):						
2a.1 Rack 2A and remaining portions of previously size reduced racks	х	The last process rack, 2A, was size reduced in April 2000 and the last remnants (contained within non-MW grout containers) were relocated to A-Cell in June 2000.  Containerization of remaining portions of racks was completed.	100%		02/02/01	Waste container contents and videotape
2a.2 2,265-kilogram steel block (NOTE: Per Reference 6, this item was recategorized as "required" equipment for future 324 REC closure and deactivation activities.)	See 2a.2 note	This item is also called the 5,000 lb block. This block has been incorporated as a fixture/stabilizer for the newly developed crane-deployed vacuuming system.	See 2a.2 note	See 2a.2 note	See 2a2.	Videotape
2a.3 Sump trench cover screen (east end of B-Cell floor)	Х	Screen had been removed previously.	100%		02/27/01	Videotape

	Status			Estimated	Actual	
	(Complete (X)	6 6	%	Completion	Completion	Documentation
Action/Requirement/Conditions	In Progress (P)	Status Statement	Complete	Date	Date	Completed
2a.4 Waste containers (with contents requiring		Disposition/repackaging of	}			
transfer into other containers) i.e., grout	ļ	waste from all of the subject				
containers (GC) (non-MW), engineered containers (MW), and RGCs (MW). These	x	five (5) items has been completed, including:	100%		02/22/01	Waste containers
include GC-88, GC-115, GC-120, RGC-0, and	^	Completed, including.	10076		02/22/01	contents
engineered containers in wagon wheel.		GC-115				Contents
clighted of columners in wagon wheel.		GC-120				
		GC-88				
		Wagon wheel EC				
		dispersible				
		RGC-0				
		Repackaging of contents of RGC-0 was completed.				
		All wagon wheel EC				
		dispersibles have been loaded				
		into RGCs.				
•						
		Two empty ECs remain in				
		B-Cell.				
2a.5 Storage rack (wagon wheel holding engineered	See 2a.5 note	This rack is needed to hold	See 2a.5	See 2a.5	See 2a.5	See 2a.5 note
containers) used for Special-Case Waste and		ECs during future 324 REC closure/deactivation activities	note	note	note	
MW. (NOTE: Per Reference 6, this item was recategorized as "required" equipment for		ciosure/deactivation activities.				
future 324 REC closure and deactivation						
activities.)						
activities.)	1	<u> </u>	<del></del>		L	

	Status			Estimated	Actual	
	(Complete (X)	G G	%	Completion	Completion	Documentation
Action/Requirement/Conditions	In Progress (P)	Status Statement	Complete	Date	Date	Completed
Activity(s)/Measure(s) (continued)		The lead shield plugs have		ł		
2b Remove containerized excess equipment designated as MW (in RGCs) from B-Cell (Reference 1).	x	been removed from B-Cell. All three (3) of the three (3) expected MW equipment RGCs have been removed from B-Cell, including the following:  RGC-324-00-083 (RGC-4) RGC-324-00-103 (RGC-6) RGC-324-00-104	100%		01/15/01	Waste containers contents
2c Ship containerized excess equipment designated as MW (in RGCs/SWDBs) to 200 Area by 11/30/00 (Reference 5) <sup>2</sup> .	x	Shipping has been completed for the three (3) steel waste disposal boxes (SWDBs) containing MW equipment RGCs, including the following:  RGC-324-00-083	100%		01/15/01	Shipping papers/manifest
		(09/28/00) RGC-324-00-103 (09/30/00) RGC-324-00-104 (01/15/01)				

<sup>&</sup>lt;sup>2</sup> Reference 5, Attachment 6, indicates that all collected mixed waste must be removed from the 324 Building B-Cell and placed in compliant, long-term storage in the 200 Area prior to the deadline established by M-89-02 (November 30, 2000).

		Status		n/	Estimated	Actual	Danimanti
	A 1' - 1 M 1	(Complete (X)	Chatan Sanasana	%	Completion	Completion	Documentation
	Action/Requirement/Conditions	In Progress (P)	Status Statement	Complete	Date	Date	Completed
2d	Remove containerized excess equipment		Thirty-seven (37) of the thirty-		ļ		
	designated as non-MW (in grout containers)	_	eight (38) expected grout	070/			
	from B-Cell (to be staged in A-Cell) by	P	containers filled with non-MW	97%			
	11/30/00 (Reference 5) <sup>3</sup> .		excess equipment have been				
1			removed from B-Cell. One	1			
			partially filled GC remains in	1			
ŀ			B-Cell (as agreed to by Ecology during 324 Building				
			visit/meeting conducted on				
			February 8, 2001).				
			reditiary 8, 2001).				
			Eighteen (18) of these				
			containers are staged in the	†			
			324 Building A-Cell, awaiting		·		
			future shipment.				
			Containerization of non-MW				7
			is complete, but one container	ŀ			
			(GC-88) remains in B-Cell				
			until other REC non-MW can				
			be used to fill it completely.		1		
2e	Ship excess equipment designated as non-MW		Nineteen (19) of the thirty-				
	(in grout containers) to 200 Area storage by	P	eight (38) expected grout	50%			
	7/31/01 (Reference 5) <sup>3</sup>	1	containers filled with excess				
1			equipment have been shipped				
L			to 200 Area storage.				

<sup>&</sup>lt;sup>3</sup> Reference 5, Attachment 6, indicates that the non-mixed waste (grout containers) removed from B-Cell (and stored/staged in A-Cell) will be moved to compliant, long-term storage in the 200 Area. Reference 5 indicates that the deadline for this activity will appear as a DOE (RL) milestone for the next fiscal year (2001) and will occur within eight months after the completion date required by Tri-Party Agreement Milestone M-89-02 (i.e., within eight months after November 30, 2000).

Action/Requirement/Co.	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
2f Following "Required" equipm B-Cell to support closure acti (Reference 1):						
Cell penetration plugs						
West window work tray		AND THE PARTY OF			l 1	25 <u>5</u>
10-ton crane (overhead crane)						
3-ton crane (overhead crane)						
Two temporary fuel storage ra	icks <sup>4</sup>				1	1.35
<ul> <li>Fuel pin storage container (gat wall</li> </ul>	ttling gun)⁴, west		1			
Fuel thimbles <sup>4</sup> , west side of B- storage racks	-Cell in fuel		7			
<ul> <li>Installed electrostatic precipita (particulate) filters, north wall</li> </ul>						
Installed manipulators					1	
<ul> <li>Empty grout containers, lids, e containers, RGCs</li> </ul>	engineered					
<ul> <li>Useable deactivation equipme following (References 1 and 4</li> </ul>		1 to 1 to 1 to 1 to 1 to 1	10000			
<ul> <li>Fire protection hoses and for fire protection)</li> </ul>						
Installed and functioning	camera systems.					
including pan/tilt heads,						
(needed for size reduction						7
equipment, as well as cle trench and D-Cell)						
(Continued on next page)						

<sup>&</sup>lt;sup>4</sup> SNF currently stored within B-Cell will remain in B-Cell pending availability of the 200 Area Interim Storage Area (ISA). This is a delay in the removal of the fuel out of B-Cell. The former schedule had an interim movement of this fuel out of B-Cell and into A-Cell pending availability of the ISA. The project will benefit by eliminating this interim move within the facility and result in an earlier shipment of SNF out of the 324 Building, and allow for an overall better sequencing of closure activities within the 324 Building.

Action/Requirement/Conditions	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
Useable deactivation equipment (continued)						100
Per Reference 6, the following recently developed items were added to the "required" useable deactivation equipment:			14.5			
<ul> <li>RODC lifting fixture (for lifting/handling future RODCs)</li> </ul>		24-54	1000			
Band saw (for size reduction of REC equipment)						
Chop saw (for size reduction of REC equipment)						
<ul> <li>Bigelow scraper (for REC floor cleaing)</li> <li>Wagon wheel (a web assembly used to keep</li> </ul>			la interpreta			
engineered containers vertical for filling)  Crane deployed vacuum system (integral of					4 55	
which is the 5000 lb block).						
3) Third Distinct Action (Reference 1):						100
Removal of debris from B-Cell	1.5 (2.5)	ERRED FOR	1.5	1.00		
Performance Standard for Third Distinct Action:						
<ul> <li>Miscellaneous debris (i.e., tools, metal scrap, manipulator boots) located on B-Cell floor will be removed from B-Cell and packaged for removal</li> </ul>						
<ul> <li>Packaged debris will be removed from the REC B-Cell</li> </ul>						
Activity(s)/Measure(s): 3a Collect debris from B-Cell (Reference 1)	x	Debris was collected using clamshelling method. Clamshelling activities have been completed.	100%		03/01/01	Cell diagram and

Action/Requirement/Conditions	Status (Complete (X) In Progress (P)	Status Statement	% Complete	Estimated Completion Date	Actual Completion Date	Documentation Completed
3b Rinse and package debris consistent with the size-reduced equipment removed from B-Cell (Reference 1)						
Activity(s)/Measure(s) (continued): 3b.1 Containerize non-MW debris using cylindrical Grout Containers (GCs) (Reference 5):	х	Containerization of non-MW debris into cylindrical GC has been completed.	100%		02/23/01	Cell diagram and videotape
3b.2 Containerize MW debris using Rectangular Grout Containers (RGCs) (Reference 5):	х	Containerization of MW debris (by clamshelling, Section 3a) has been completed. The MW debris was containerized into the RGCs addressed in Section 1a (MW dispersibles) and Section 2b (MW excess equipment) for packaging efficiency reasons.	100%		03/01/01	Cell diagram and videotape
3c Remove containerized debris from B-Cell (Reference 1)		124				

3, 17, 24, 14, 14, 14, 14, 14, 14, 14, 14, 14, 1	Status		0.0	Estimated	Actual	-
	(Complete (X)	G G	%	Completion	Completion	Documentation
Action/Requirement/Conditions	In Progress (P)	Status Statement	Complete	Date	Date	Completed
Activity(s)/Measure(s) (continued): 3c.1 Remove containerized non-MW debris (GCs) from B-Cell (to be staged in A-Cell) by 11/30/00 (Reference 5) <sup>5</sup>	P	Non-MW debris has been containerized into the same GCs addressed in Section 2d (non-MW excess equipment) for packaging efficiency reasons. Thirty-seven (37) of the thirty-eight (38) expected non-MW GCs have been removed from B-Cell. Eighteen (18) of these are staged in A-Cell, awating fiture shipment. Containerization is complete, but GC-88 removal will be performed after other REC non-MW is used to fill it completely. (See 2d.)	97%			Waste containers contents
3c.2 Remove containerized MW debris (RGCs) from B-Cell by 11/30/00 (Reference 5)	x	All seven (7) of the expected seven (7) dispersibles RGCs (Section 1.d.1) have been removed from B-Cell.	100%		03/08/01	Waste loadout documentation
3d Ship containerized debris to 200 Area compliant storage (Reference 1)						
3d.1 Ship containerized non-MW debris (GCs in liner assembly/3-82 B cask) to 200 area compliant storage by 7/31/01 (Reference 5) <sup>5</sup> . Approximately five of the GCs will be categorized as low-level waste and are expected to therefore require grouting (in B-Cell) prior to shipment.	Р	Nineteen (19) of the expected thirty-eight (38) non-MW GCs (Section 2e) have been shipped to 200 Area storage.	50%			Shipping papers

<sup>&</sup>lt;sup>5</sup> Reference 5, Attachment 6, indicates that the non-mixed waste (grout containers) removed from B-Cell (and stored/staged in A-Cell) will be moved to compliant, long-term storage in the 200 Area. It also indicates that the deadline for this activity will appear as a DOE milestone for the next fiscal year (2001) and will occur within eight months after the completion date required by Tri-Party Agreement Milestone M-89-02 (i.e., within eight months of November 30, 2000).

	Status			Estimated	Actual	
	(Complete (X)		%	Completion	Completion	Documentation
Action/Requirement/Conditions	In Progress (P)	Status Statement	Complete	Date	Date	Completed
3d.2 Ship containerized MW debris (RGCs in		All seven (7) of the expected				
Rectangular Overpack Disposal Container /	X	seven (7) dispersibles RGCs	100%	:	03/22/01	Shipping
Steel Waste Disposal Box, SWDB) to 200 Area		(Section 1.d.2) have been				papers/manifest
compliant storage by 11/30/00 (Reference 5) <sup>6</sup>		shipped to CWC.	<u> </u>			

<sup>&</sup>lt;sup>6</sup> Reference 5, Attachment 6, indicates that all collected mixed waste must be removed from the 324 Building B-Cell and placed in compliant, long-term storage in the 200 Area prior to the deadline established by M-89-02 (November 30, 2000).

# 324 BUILDING B-CELL INTERIM MILESTONE M-89-02 WASTE SUMMARY

	(1) Di	apersibles	(2) Exces	s Equipment	(3) Debris		
Steps	MW	Non-MW	MW	Non-MW	MW	Non-MW	
Collect waste	х	-	-	-	x	x	
Containerize	х	-	х	х	х	х	
Remove/Stage	х	-	х	х	х	x	
Ship containers	x	_	Х	х	х	х	

Ref. 1 54828



#### STATE OF WASHINGTON

#### DEPARTMENT OF ECOLOGY

1315 W. 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

March 13, 2001

Mr. Clifford E. Clark, Acting Program Manager Office of Regulatory Liaison United States Department of Energy Richland Operations Office P.O. Box 550, MSIN: A5-15 Richland, Washington 99352

Dear Mr. Clark:

Re: Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)
Interim Milestone M-89-02, Complete Removal of 324 Building Radiochemical
Engineering Cells (REC) B-Cell Mixed Waste (WM) and Equipment, November 30,
2000

The Washington State Department of Ecology (Ecology) has received your letter, dated February 23, 2001, which addresses the need to retain several pieces of equipment that have been developed, used, and found to be suitable for future deactivation activities. These items are as follows:

- Rectangular Overpack Disposal Container (RODC) Lifting Fixture (Spreader Bar);
- · Band Saw;
- Chop Saw;
- Bigelow Scraper;
- · Wagon Wheel; and
- Crane Deployed Vacuum System.

Although these items were not specifically identified in the previous listing of remaining equipment, your statement of justification for keeping them provided sufficient information for Ecology to concur with your need to maintain those pieces of equipment for future deactivation work.

This concurrence is contingent upon receipt of an Ecology approved plan and schedule for removal of the remaining equipment (excluding cranes and manipulators) within ninety (90) days of receipt of this letter.

RECEIVED

MAR 1 5 2001 DOE RL/CCC Mr. Clifford E. Clark March 13, 2001 Page 2

If you have any questions, please feel free to contact me at (509) 736-3007, or Deborah Singleton at (509) 736-5722.

Sincerely,

Rick Bond, Transition Project Manager,

Nuclear Waste Program

RB:sb

cc: David Templeton, USDOE

Roger Bowman, FH
David Rasmussen, FH
Todd Martin, HAB
J.H. Richards, CTUIR
Pat Sobotta, NPT
Russell Jim, YN

Mary Lou Blazek, OOE

Administrative Record: Transition & Milestone M-89-02/324 REC

Rej 2 54331



#### STATE OF WASHINGTON

#### DEPARTMENT OF ECOLOGY

1315 W. 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

February 1, 2001

Mr. Peter Knollmeyer United States Department of Energy P.O. Box 550, MSIN: A5-11 Richland, Washington 99352

Dear Mr. Knollmeyer:

Re: 324 Building Checklist and Confirmation of Missed Milestone M-89-02

A checklist of the actions and conditions to be met by interim milestone M-89-02, Complete Removal of 324 Building REC B-Cell Mixed Waste (MW) and Equipment, was submitted to the Washington State Department of Ecology (Ecology) on August 23, 2000. The checklist provides greater definition of milestone performance standards as set forth in the United States Department of Energy (USDOE) letter number 00-FTD-006 dated December 8, 1999, Ecology's letter of concurrence dated February 28, 2000, and clarification handout from the August 9, 2000, Project Manager meeting.

Ecology has reviewed the checklist and concurs that the checklist incorporates definitions of performance as set forth in the above documents. The checklist organized performance measures and actions to be taken to meet milestone M-89-02 in concise tables and provides Ecology and USDOE with a tracking system.

If you have any questions or concerns regarding this letter, please feel free to contact me at (509) 736-3007.

Sincerely,

Rick Bond, Transition Project Manager

Nuclear Waste Program

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cc:

RB:sb.

Cliff Clark, USDOE

David Langstaff, USDOE

David Templeton, USDOE

Roger Bowman, FH Bill Burke, CTUIR Pat Sobotta, NPT Russell Jim, YN

Mary Lou Blazek, OOE

Administrative Record: M-89-02, 324 Bldg., B-Cell

54323 Ref. 3



### Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

DEC 2 1 2000

01-FTD-010

Mr. Michael A. Wilson, Program Manager Nuclear Waste Program State of Washington Department of Ecology P.O. Box 47600 Olympia, Washington 98504

Dear Mr. Wilson:

HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) INTERIM MILESTONE M-89-02, COMPLETE REMOVAL OF 324 BUILDING RADIOCHEMICAL ENGINEERING CELLS (REC) B-CELL MIXED WASTE (MW) AND EQUIPMENT, NOVEMBER 30, 2000

The U.S. Department of Energy, Richland Operations Office (RL) and Fluor Hanford, Inc. (FHI) are providing the State of Washington Department of Ecology (Ecology) the enclosed recovery schedule for Tri-Party Agreement Interim Milestone M-89-02. The recovery schedule supports the FHI developed Milestone Recovery Plan for M-89-02 referenced in my previous letter (01-FTD-006) to you on this subject dated November 8. RL and FHI included your staff in the development of the recovery plan before providing the revised schedule.

The schedule shows that shipment of mixed waste associated with M-89-02 to the 200 Area will be completed by March 30, 2001, and shipment of non-mixed waste associated with M-89-02 to the 200 Area will be completed by July 31, 2001. The schedule for repair and maintenance of the 30-ton crane appears first on the schedule because the annual maintenance is required in December 2000 and the crane must be operable and available to support shipment of all waste from B-Cell out of the 324 Building. Availability of the B-Cell, airlock, and cask-handling area cranes is essential to moving B-Cell waste out of the 324 Building and to maintaining the recovery schedule. Another key factor potentially limiting shipments of mixed waste to the 200 Area is the weather; the operational controls on the packaging require ambient air temperature to be greater than 32°F because of the package material.

The M-89-02 milestone commitment to the November 30, date was established in November 1998 in Tri-Party Agreement Change Number M-89-98-03. Since that time, the 324 Building project team has continually worked to overcome a number of technical, administrative, work force, and schedule challenges to sustain progress toward meeting M-89-02. In spite of these aggressive efforts often made at a cost of personal sacrifice by the staff, recent delays caused by various technical difficulties, operational concerns, and equipment malfunctions have resulted in the project being behind schedule. Building on this experience, FHI has developed the enclosed recovery schedule using realistic work planning assumptions that now consider the uncertainties concerning equipment availability, overtime scheduling, conduct of operations improvements, and technical challenges.

Sincerely

Clifford E. Clark, Acting Program Manager
Office of Regulatory Liaison

FTD: DCL

Enclosure

cc w/encl.:

M. L. Blazek, OOE

F. W. Bond, Ecology

R. F. Stanley, Ecology

N. C. Boyter, FHI

J. S. Hertzel, FHI

W. Burke, CTUIR

R. Jim, YN

M. B. Reeves, HAB

P. Sobotta, NPT

D. Sherwood, EPA

Administrative Record

Ecology Library, Kennewick

Environmental Portal, LMSI

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Sincerely,

## ORIGINAL SIGNED BY

Clifford E. Clark, Acting Program Manager
Office of Regulatory Liaison

FTD: DCL

Enclosure

cc w/encls.:

M. L. Blazek, OOE

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D. Sherwood, EPA

Administrative Record

Ecology Library, Kennewick

Environmental Portal, LMSI

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S. L. Sailor, FTD

J. K. Yerxa, RCD

B. D. Williamson, OCC

P. K. Kruger, DMST

K. M. Hintzen, AMNM

W. W. Ballard, AMI

M. K. Marvin, IPI

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DOE-RL/RLCC

Record Note: The recovery schedule is very brief and high level, similar to the schedule RL originally provided for the 324 REC/HLV closure plan (Letter 98-EAP-276 dated June 5, 1998) and approved by Ecology. The body of this letter includes some background for Ecology management to better understand the very brief recovery schedule and factors affecting it. RL and Ecology are proceeding without RL submitting a change request for M-89-02.

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Sincerely,

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Clifford E. Clark, Acting Program Manager Office of Regulatory Liaison

Enclosure

cc w/encls.:

M. L. Blazek, OOE

F. W. Bond, Ecology

R. F. Stanley, Ecology

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B. D. Williamson, OCC

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Sincerely,

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Clifford E. Clark, Acting Program Manager Office of Regulatory Liaison

Enclosure

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M. L. Blazek, OOE

F. W. Bond, Ecology

R. F. Stanley, Ecology

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W. Burke, CTUIR

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Sincerely,

FTD: DCL

Clifford E. Clark, Acting Program Manager Office of Regulatory Liaison

Enclosure

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M. L. Blazek, OOE

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R. F. Stanley, Ecology

N. C. Boyter, FHI

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Mr. Rick Bond 01-FTD-024

the checklist as a tracking tool to monitor completion of M-89-02 workscope (Reference 2). The checklist systematically lists the performance measures, provides a record of the status of milestone completion, and provides a record of completion of the respective activities. The scope of work described in the checklist includes the total scope necessary to complete M-89-02. The checklist includes both the removal of all dispersible materials, excess equipment, and debris from B-Cell and shipment of the removed MW to suitable storage in the 200 Area by March 30, 2001, and the shipment of the remaining non-MW removed from B-Cell to suitable disposal or storage in the 200 Area by July 31, 2001.

Currently, two of 19 additional non-MW shipments have been completed. Shipments of the remaining non-MW removed from B-Cell are on schedule to meet the July 31, 2001, commitment.

If there are any questions, please contact me on (509) 376-9333, or your staff may contact David Langstaff, Facility Transition Division, on (509) 376-0254.

Sincerely,

### ORIGINAL SIGNED BY

Clifford E. Clark, Acting Program Manager Office of Regulatory Liaison

FTD:DCL

Enclosure

cc w/encl:

M. L. Blazek, Oregon Energy

N. C. Boyter, FHI

J. S. Hertzel, FH1

R. Jim, YN

O. S. Kramer, FHI

T. M. Martin, HAB

J. H. Richards, CTUIR

D. R. Sherwood, EPA

P. Sobotta, NPT

R. F. Stanley, Ecology

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K. V. Clarke, IPI

D. T. Evans, FTD

D. C. Langstaff, FTD

G. A. Williams, RCA

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RECORD NOTE: In April, David Langstaff and representatives from OPE and AMI plan to conduct an independent verification of the checklist documentation that supports completion of the subject M-89-02 workscope. A single Grout Container partially loaded with non-mixed waste will remain in B-Cell until files; it will be shipped to the 200 Area by July 31, 2001, consistent with direction provided in the letter (01-ftd-020, dated March 22, 2001).

#### K:/Shona/Dave L./01-FTD-0024

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